## IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A plasma processing method having a first and a second plasma processing step carried out in a single chamber, wherein deposits are substantially accumulated in the chamber during the first plasma processing step and substantially no deposits are accumulated in the chamber during the second plasma processing step, the method comprising the step of:

dry cleaning an inside of the chamber by using a dummy substrate between the first and the second plasma processing step,

wherein the dry cleaning step is performed by supplying into the chamber a deposit removing gas for removing the deposits produced in the chamber during the first plasma processing step and a dummy substrate etching gas capable of etching the dummy substrate, and

wherein the second plasma processing step includes a plasma etching performed without producing deposits in the chamber.

Claim 2 (Original): The plasma processing method of claim 1, wherein the deposit removing gas is an oxygen gas, a nitrogen gas, a hydrogen gas, an ammonia gas or a combination thereof.

Claim 3 (Original): The plasma processing method of claim 1, wherein the dummy substrate etching gas is one of a CF-based gas, a CHF-based gas and a SF-based gas.

Claim 4 (Original): The plasma processing method of claim 1, wherein the deposit removing gas is an oxygen gas and the dummy substrate etching gas is CF<sub>4</sub>.

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Claim 5 (Original): The plasma processing method of claim 1, wherein a surface of the dummy substrate is made of a material having silicon.

Claim 6 (Currently Amended): A plasma processing method comprising the sequential steps of:

performing a <u>first</u> plasma <del>processing</del> <u>etching</u> on an object <del>to be processed</del> in a chamber, <u>during which deposits are produced and accumulated in the chamber</u>;

after the step of performing the plasma processing, dry cleaning an inside of the chamber by using a dummy substrate, wherein the dry cleaning step is performed by supplying into the chamber a deposit removing gas for removing the deposits produced in the chamber during the step of performing the plasma processing and a dummy substrate etching gas capable of etching the dummy substrate[[,]]; and

performing a second plasma etching on the object without producing deposits in the chamber,

wherein a ratio of a flow rate of the dummy substrate etching gas to that of the deposit removing gas is not less than about 0.14% but not larger than about 7.1%.

Claim 7 (Currently Amended): The plasma processing method of claim 6, wherein a high frequency power applied to one of a top and a bottom electrode during the step of performing the plasma processing dry cleaning ranges from about 3.18 W/cm<sup>2</sup> to about 4.78 W/cm<sup>2</sup>.

Claim 8 (Original): The plasma processing method of claim 6, wherein the deposit removing gas is an oxygen gas, a nitrogen gas, a hydrogen gas, an ammonia gas or a combination thereof.

Claim 9 (Original): The plasma processing method of claim 6, wherein the dummy substrate etching gas is one of a CF-based gas, a CHF-based gas and a SF-based gas.

Claim 10 (Original): The plasma processing method of claim 6, wherein the deposit removing gas is an oxygen gas and the dummy substrate etching gas is CF<sub>4</sub>.

Claim 11 (Original): The plasma processing method of claim 6, wherein a surface of the dummy substrate is made of a material having silicon.

Claim 12 (Canceled).

Claim 13 (Currently Amended): An apparatus for performing a plasma processing on an object to be processed, comprising:

a chamber in which a first and a second plasma process [[is]] are carried out, deposits being substantially accumulated in the chamber during the first plasma process and substantially no deposits being accumulated in the chamber during the second plasma process, wherein the second plasma process includes a plasma etching process; and

a gas supply system for supplying into the chamber a deposit removing gas for removing deposits produced in the chamber and a dummy substrate etching gas capable of plasma-etching a dummy substrate during a dry cleaning process carried out by using the

dummy substrate after performing the <u>first</u> plasma processing process and prior to the second plasma process on the object.

Claim 14 (Original): The apparatus of claim 13, wherein the deposit removing gas is an oxygen gas, a nitrogen gas, a hydrogen gas, an ammonia gas or a combination thereof.

Claim 15 (Original): The apparatus of claim 13, wherein the dummy substrate etching gas is one of a CF-based gas, a CHF-based gas and a SF-based gas.

Claim 16 (Original): The apparatus of claim 13, wherein the deposit removing gas is an oxygen gas and the dummy substrate etching gas is CF<sub>4</sub>.

Claim 17 (Original): The apparatus of claim 13, wherein a surface of the dummy substrate is made of a material having silicon.

Claim 18 (Currently Amended): An apparatus for performing a plasma processing on an object to be processed, comprising:

a chamber in which a first and a second [[the]] plasma processing process are performed on the object, wherein the second plasma process includes a plasma etching process carried out without generating deposits in the chamber is performed; and

a gas supply system for supplying into the chamber a deposit removing gas for removing deposits produced <u>during the first plasma process</u> in the chamber and a dummy substrate etching gas capable of plasma-etching a dummy substrate during a dry cleaning process carried out by using the dummy substrate, the dry cleaning process being performed

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after performing the first plasma processing process and prior to the second plasma process on the object,

wherein a ratio of flow rate of the dummy substrate etching gas to that of the deposit removing gas during the dry cleaning process is not less than about 0.14% and not larger than about 7.1%.

Claim 19 (Currently Amended): The apparatus of claim 18, wherein a high frequency power applied to one of a top and a bottom electrode during the plasma processing dry cleaning process ranges from about 3.18 W/cm<sup>2</sup> to about 4.78 W/cm<sup>2</sup>.